

Location 1 – Far area Southeast side of beach.

AreaRAE #116

- Battery changed at 18:17 on 3/25/14
- Battery changed at 09:16 on 3/26/14
- Battery change at 21:35 on 3/26/14
- Datalog downloaded and cleared at 23:15 on 3/25/14
- AreaRAE stopped at 01:41 on 3/27/14

OVM Badge #NK8275 Time: 08:16 – 18:17 3/25/14

OVM Badge #NF1864 Time: 18:17 – 05:47 3/25/14

OVM Badge #NF1957 Time: 07:03 – 17:03 3/26/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	08:25	ND – 0.05	4 – 117	
3/25/14	11:54	ND – 0.05	111 – 169	
3/25/14	14:48	ND	46 – 111	
3/25/14	21:01	ND	55 – 91	
3/25/14	23:15	ND	75 – 131	
3/26/14	01:56	-	ND	No UltraRAE at time of sample
3/26/14	03:00	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample
3/26/14	05:19	ND	17 – 68	
3/26/14	07:03	ND (ND)	41 – 64	Taken side by side with EPA
3/26/14	09:12	ND	0 – 7	
3/26/14	10:55	ND	68 – 81	
3/26/14	13:50	ND	ND	
3/26/14	14:37	ND	ND	
3/26/14	17:03	ND	ND	
3/26/14	19:02	ND	ND	
3/26/14	21:35	ND	ND	
3/26/14	23:30	ND	ND	
3/27/14	01:41	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 2 – Mid Beach

AreaRAE #116

- Battery changed at 18:10 on 3/25/14
- Battery changed at 09:22 on 3/26/14
- Battery changed at 21:30 on 3/26/14
- Datalog downloaded and cleared at 23:04 on 3/25/14
- AreaRAE stopped at 01:37 on 3/27/14

OVM Badge #NK 8286 Time: 08:44 – 18:10 on 3/25/14

OVM Badge #NF 1952 Time: 18:10 – 05:44 on 3/25/14 to 3/26/14

OVM Badge #NF 1726 Time: 07:13 – 17:08 on 3/26/14

OVM Badge #NF 1763 Time: 19:00 – 01:37 on 3/26/14 to 3/27/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	08:45	ND	56 – 279	
3/25/14	12:01	ND	114 – 124	
3/25/14	14:57	ND	45 – 116	
3/25/14	20:58	ND	3 – 15	
3/25/14	23:02	ND	52 – 138	
3/26/14	01:52	-	ND	No UltraRAE at time of sample
3/26/14	02:55	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample
3/26/14	05:15	ND	17 – 22	
3/26/14	07:13	ND (ND)	15 – 19	Taken side by side with EPA
3/26/14	09:23	ND	2 – 16	
3/26/14	11:02	ND	34 - 36	
3/26/14	13:55	ND	ND	
3/26/14	14:40	ND	ND	
3/26/14	17:08	ND	ND	
3/26/14	19:00	ND	ND	
3/26/14	21:30	ND	ND	
3/26/14	23:28	ND	ND	
3/27/14	01:37	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 3 – Northwest Beach

AreaRAE #103

- Battery changed at 18:10 on 3/25/14

- Battery changed at 09:33 on 3/26/14
- Battery changed at 21:24 on 3/26/14
- Datalog downloaded and cleared at 23:04 on 3/25/14
- AreaRAE stopped at 01:34 on 3/27/14

No OVM badge at this location

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	09:41	0.05	219 – 317	
3/25/14	12:07	ND	253 – 684	
3/25/14	15:03	ND	63 – 119	
3/25/14	20:55	ND	ND – 25	
3/25/14	22:42	ND	10 – 38	
3/26/14	01:47	-	64 – 141	No UltraRAE at time of sample
3/26/14	02:56	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample. EPA took picture at the location.
3/26/14	05:12	ND	20 – 30	
3/26/14	07:22	ND (ND)	44 – 60	Taken side by side with EPA
3/26/14	09:32	ND	67 – 124	
3/26/14	11:08	ND	38 – 41	
3/26/14	13:58	ND	ND	
3/26/14	14:42	ND	ND – 6	
3/26/14	17:13	ND	ND	
3/26/14	18:58	ND	ND	
3/26/14	21:24	ND	ND	
3/26/14	23:26	ND	ND	
3/27/14	01:34	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 4 – Ramp at beach by tent, hanging on the fence.

AreaRAE #108

- Battery changed at 17:40 on 3/25/14
- Battery changed at 09:40 on 3/26/14

- Battery changed at 21:20 on 3/26/14
- Unable to download AreaRAE data. Datalog was not cleared.
- Datalog was cleared and set to automatic download on the day shift 2/26/14
- AreaRAE stopped at 01:30 on 3/27/14

OVM Badge #NK 8265 Time: 08:53 – 17:39 on 3/25/14

OVM Badge #NK 2008 Time: 17:40 – 05:41 on 3/25/14 to 3/26/14

OVM Badge #NK 1653 Time: 07:32 – 17:16 on 3/26/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	08:50	ND	269 – 713	
3/25/14	12:12	ND	211 – 256	
3/25/14	15:05	ND	154 – 427	
3/25/14	20:50	ND	27 – 261	
3/25/14	22:40	ND	56 – 150	
3/26/14	02:03	-	72 – 142	No UltraRAE at time of sample
3/26/14	03:05	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample.
3/26/14	05:26	ND	50 – 130	
3/26/14	07:33	ND	148 – 360	
3/26/14	09:38	ND	17 – 56	
3/26/14	11:10	ND	43 – 46	
3/26/14	14:00	ND	ND	
3/26/14	14:44	ND	ND	
3/26/14	17:16	ND	ND	
3/26/14	19:22	ND	ND	
3/26/14	21:20	ND	ND	
3/26/14	23:26	ND	ND	
3/27/14	01:30	ND	ND	
3/27/14	03:41	ND	ND	
3/27/14	05:10	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 5 – Middle of walkway at #6 Separator

No AreaRAE at this location

OVM Badge #NK 1913 Time: 10:09 – 18:31 on 3/25/14

OVM Badge #NK 1821 Time: 18:35 – 05:38 on 3/25/14 to 3/26/14

OVM Badge #NK 1655 Time: 07:37 – 17:24 on 3/26/14

- Skimmer was placed on the fence next to Badge #NK 1655 at 17:24 check

OVM Badge #NK 1750 Time: 19:09 – 01:52 on 3/26/14 to 3/27/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	10:10	ND	700 ppb – 1.9 ppm	
3/25/14	12:15	ND	892 ppb – 1.9 ppm	
3/25/14	15:10	ND	614 ppb – 1.0 ppm	
3/25/14	20:30	ND	ND – 90	
3/25/14	22:30	ND	75 – 230	
3/25/14	23:30	ND	66 – 210	
3/26/14	02:12	-	277 – 512	No UltraRAE at time of sample
3/26/14	02:30	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample.
3/26/14	05:30	ND	40 – 60	
3/26/14	07:39	ND	85 – 91	
3/26/14	09:46	ND	49 – 57	
3/26/14	11:13	ND	86 – 105	
3/26/14	13:36	ND	ND	
3/26/14	15:23	ND	59 – 95	
3/26/14	17:24	ND	ND	
3/26/14	19:15	ND	ND	
3/26/14	21:42	ND	ND	
3/26/14	23:36	ND	ND	
3/27/14	01:47	ND	ND	
3/27/14	03:43	ND	ND	
3/27/14	05:12	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 6 – Outfall

AreaRAE #114

- Battery changed at 18:40 on 3/25/14
- Battery changed at 09:53 on 3/26/14
- Battery changed at 2130 on 3/26/14
- Datalog download was corrupted
- Datalog was cleared and set to automatic download on the day shift 2/26/14

- AreaRAE stopped at 01:49 on 3/27/14

OVM Badge #NF 1902 Time: 10:20 – 18:40 on 3/25/14

OVM Badge #NF 1888 Time: 1840 – 0539 on 3/25/14 to 3/26/14

OVM Badge #NF 1748 Time: 0743 – 1728 on 3/26/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	10:20	ND – 0.05	1.0 ppm – 2.0 ppm	
3/25/14	12:27	ND	523 ppb – 1.6 ppm	
3/25/14	15:23	ND	314 – 625	
3/25/14	20:30	ND – 0.05	700 – 1000	
3/25/14	22:30	ND	370 – 890	
3/25/14	23:30	ND	181 – 410	
3/26/14	02:15	-	398 – 911	No UltraRAE at time of sample
3/26/14	02:40	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample.
3/26/14	05:33	ND	180 – 240	
3/26/14	07:45	ND	181 – 211	
3/26/14	09:47	ND	49 – 81	
3/26/14	11:16	ND	63 – 87	
3/26/14	13:36	ND	ND	
3/26/14	15:25	ND	4 – 13	
3/26/14	17:28	ND	ND	
3/26/14	19:19	ND	ND	
3/26/14	21:45	ND	ND	
3/26/14	23:34	ND	ND	
3/27/14	01:51	ND	ND	
3/27/14	03:46	ND	ND	
3/27/14	05:15	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

Location 7 – Standard Ave. and Dicky Rd.

AreaRAE #102

- Battery changed at 19:00 on 3/25/14
- Battery changed at 20:41 on 3/26/14
- Datalog downloaded and cleared at 23:57 on 3/25/14
- AreaRAE stopped at 01:18 on 3/27/14

OVM Badge #NF 1870 Time: 10:58 – 19:00 on 3/25/14

OVM Badge #NF 1939 Time: 19:00 – 06:50 on 3/25/14 to 3/26/14

OVM Badge #NF 1933 Time: 08:39 – 17:45 on 3/26/14

OVM Badge #NF 2045 Time: 18:45 – 01:18 on 3/26/14 to 3/27/14

Direct Reads

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	11:06	ND	280	
3/25/14	12:41	ND	180 – 222	
3/25/14	15:46	ND	168 – 190	
3/25/14	21:13	ND	47 – 60	
3/25/14	23:54	-	111 – 127	No UltraRAE at time of sample
3/26/14	01:36	-	0 - 30	No UltraRAE at time of sample
3/26/14	02:18	ND (ND)	-	Taken side by side with EPA. No ppbRAE at time of sample.
3/26/14	05:04	ND	10 – 27	
3/26/14	08:41	ND	2 – 56	
3/26/14	10:21	ND	123 – 130	
3/26/14	11:36	ND	86 – 112	
3/26/14	14:11	ND	6 – 29	
3/26/14	15:39	ND	45 – 91	
3/26/14	17:44	ND	ND	
3/26/14	18:45	ND	ND	
3/26/14	21:06	ND	ND	
3/26/14	23:17	ND	ND	
3/27/14	01:18	ND	ND	
3/27/14	03:31	ND	ND	
3/27/14	05:23	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

(#) – EPA readings

#6 Separator Area Monitoring

Date	Time	UltraRAE (ppm)	ppbRAE (ppb)	Notes
3/25/14	10:33	0.05	0.5 ppm – 2.0 ppm	
3/25/14	10:36	Nd – 0.1	0.4 ppm – 3.1 ppm	
3/25/14	12:19	ND	297 ppb – 2.5 ppm	
3/25/14	12:24	ND	852 ppb – 1.6 ppm	
3/25/14	15:17	ND	134 ppb –	

			2.9 ppm	
3/25/14	15:21	ND	210 ppb – 1.6 ppm	
3/25/14	20:30	ND	90 – 300	
3/25/14	22:30	ND	75 ppb – 1.35 ppm	
3/25/14	23:30	ND	60 – 610	
3/26/14	02:12	-	63 ppb – 1.8 ppm	No UltraRAE at time of sample
3/26/14	02:30	ND	-	No ppbRAE at time of sample.
3/26/14	05:31	ND	40 – 617	
3/26/14	07:51	ND	114 – 377	
3/26/14	09:56	ND	72 – 163	
3/26/14	09:59	ND	93 – 331	
3/26/14	11:15	ND	70 – 96	
3/26/14	11:20	ND	64 – 296	
3/26/14	14:24	ND	ND – 135	
3/26/14	14:26	ND	ND – 65	
3/26/14	17:30	ND	ND	
3/26/14	17:34	ND	ND	
3/26/14	19:15	ND	ND	
3/26/14	21:42	ND	ND	
3/26/14	23:36	ND	ND	
3/27/14	01:48	ND	ND	
3/27/14	03:44	ND	ND	
3/27/14	05:12	ND	ND	

ppm – Parts per million

ppb – Parts per billion

ND – None detected

Personal Samples

Monitor ID	Date	Start Time	Stop Time	Name	Company	BP Badge #	Date of Birth	Title	Work Area
NF 1631	3/25/14	19:45	05:51	Robert Noibertowicz	Veolia	46200	4/9/90	Labourer	#6/ Beach
NF 2025	3/25/14	19:45	05:51	Rene Aguilera	Veolia	65653	2/17/66	Tech	#6/ Beach
NF 1921	3/25/14	19:45	05:42	JT Steffen	Veolia	70176	1/31/76	Operator	#6
NF 1935	3/25/14	19:45	***	Eddie Zarr	Veolia	43372	6/29/79	Supervisor	#6/ Beach
NF	3/25/14	19:45	05:42	Gregory	Veolia	26076	7/19/50	Truck	#6

1978				Darrington				Driver	
NF 2143	3/25/14	19:45	05:52	Lyndell Reynolds	Veolia	46091	2/20/60	Operator	Beach
NF 1864	3/25/14	19:45	05:53	Alex Buitema	Veolia	41481	9/24/94	Labourer	Beach
NF 1708	3/25/14	20:05	03:45	Tracy Reynolds	BP	75298		Fire Chief	Lake front
NF 1664	3/25/14	20:15	06:00	Thomas Kline	Reintjes	73967	8/11/85	Labourer	Beach
NF 1991	3/25/14	20:15	06:14	Sevilla Garcia	Reintjes	72220	1/2/74	Labourer	Beach
NF 2023	3/25/14	20:15	06:14	Ronald Smith	Reintjes	38171	2/13/74	Labourer	Beach
NF 1999	3/25/14	20:15	06:03	Jeff Gooch	Reintjes	74858	11/19/59	Labourer	Beach
NF 1890	3/25/14	20:15	06:00	Rene Pena	Reintjes	74033	11/12/61	Labourer	Beach
NF 2295	3/25/14	20:15	06:02	Manuel Garcia	Reintjes	75346	11/1/57	Labourer	Beach
NF1972	3/25/14	20:15	06:15	Michael Domelle	Reintjes	787663	8/24/67	Labourer	Beach
NF 1912	3/25/14	n/a	n/a	Blank	n/a	n/a	n/a	n/a	n/a
NF 1931	3/25/14	n/a	n/a	Blank	n/a	n/a	n/a	n/a	n/a
NF 2030	3/26/14	n/a	n/a	Blank	n/a	n/a	n/a	n/a	n/a

*** Employee changed shifts early and monitor was not retrieved.